Take Test: Quiz 5.3

Test Information

Description

Instructions

Multiple Attempts This test allows multiple attempts.

Force Completion This test can be saved and resumed later.

Question Completion Status:

QUESTION 1 **1 points** Saved

Which of the following correctly describes the relationship between the poles of the open-loop system and the poles of the closed-loop system under negative unitary feedback? (More than one answer may be correct.)

- [x] The poles of the open-loop system are the same as the poles of the closed-loop system for $K = 0$.
- [ ] The poles of the open-loop system are the same as the zeros of the closed-loop system for all values of K.
- [x] The poles of the open-loop system are different from the poles of the closed-loop system for all positive values of K.
- [ ] The poles of the open-loop system are the same as the poles of the closed-loop system for all values of K.

QUESTION 2

1 points Saved

True or false?

The characteristic equation under negative unitary feedback always has complex roots, i.e., the poles of the closed-loop system are complex conjugate pairs, for all $K > 0$.

- ○ True
- ◉ False

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers | Save and Submit